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EIF4A3 Human

Eukaryotic Translation Initiation Factor 4A3 Human Recombinant
RCP0740

Product Overview

Name	EIF4A3 Human

Description

Eukaryotic Translation Initiation Factor 4A3 Human Recombinant

Accession (Primary)	P38919

Synonyms

Eukaryotic initiation factor 4A-III, eIF-4A-III, eIF4A-III, ATP-dependent RNA helicase DDX48, ATP-dependent RNA helicase eIF4A-3, DEAD box protein 48, Eukaryotic initiation factor 4A-like NUK-34, Eukaryotic translation initiation factor 4A isoform 3, Nuclear matrix protein 265, NMP 265, hNMP 265, EIF4A3, DDX48, KIAA0111, NUK34, NMP265, eIF4AIII.

Introduction

Eukaryotic initiation factor 4A-III (EIF4A3) is a member of the DEAD box helicase family and eIF4A subfamily. DEAD box proteins, distinguished by the conserved motif Asp-Glu-Ala-Asp (DEAD), are putative RNA helicases. These proteins are involved in several cellular processes including alteration of RNA secondary structure, such as translation initiation, nuclear and mitochondrial splicing, and ribosome and spliceosome assembly. EIF4A3 is a part of a splicing-dependent multiprotein exon junction complex (EJC) accumulated at splice junction on mRNAs. Based upon their distribution patterns, some members of the DEAD box helicase family are thought to be involved in embryogenesis, spermatogenesis, and cellular growth and division.

Source

Escherichia Coli.

Physical Appearance

Sterile Filtered colorless solution.

Formulation

EIF4A3 protein solution (0.5mg/ml) containing 20mM Tris-HCl buffer (pH 8.0), 2mM DTT, 30% glycerol and 200mM NaCl.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Purity

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Greater than 95.0% as determined by SDS-PAGE.

Amino acid sequence

MGSSHHHHHH SSGLVPRGSH MGSH MATTAT MATSGSARKR LLKEEDMTKV EFETSEEVDV TPTFDTMGLR EDLLRGIYAY GFEKPSAIQQ RAIKQIIKGR DVIAQSQSGT GKTATFSISV LQCLDIQVRE TQALILAPTR ELAVQIQKGL LALGDYMNVQ CHACIGGTNV GEDIRKLDYG QHVVAGTPGR VFDMIRRRSL RTRAIKMLVL DEADEMLNKG FKEQIYDVYR YLPPATQVVL ISATLPHEIL EMTNKFMTDP IRILVKRDEL TLEGIKQFFV AVEREEWKFD TLCDLYDTLT ITQAVIFCNT KRKVDWLTEK MREANFTVSS MHGDMPQKER ESIMKEFRSG ASRVLISTDV WARGLDVPQV SLIINYDLPN NRELYIHRIG RSGRYGRKGV AINFVKNDDI RILRDIEQYY STQIDEMPMN VADLI.

Precautions

EIF4A3 Human is for research use only and not for use in diagnostic or therapeutic procedures.

Target Information: (P38919)